

VOLOVIK, G.A.

Sulfur gasification during the combustion of coke. Izv.vys.ucheb.zav.;  
chern. met. 8 no.8:16-23 '65. (MIRA 18:8)

1. Dnepropetrovskiy metallurgicheskiy institut.

YUPKO, L.D.; VOLOVIK, G.A.; POTEBNYA, Yu.M.; BOLKUNOV, Ye.P.

Behavior of sulfur in a blast furnace with the complete removal of raw limestone from the charge mixture at the Southern Mining and Ore Dressing Combine. Stal' 25 no.7:582-584 J1 '65. (MIRA 18:7)

1. Zavod "Zaporozhstal'" i Dnepropetrovskiy metallurgicheskiy institut.

VOLOVIK, G.A.

Desulfuration during the sintering of iron ores. Izv. vys.  
ucheb. zav.; chern. met. 8 no.11:20-29 '65.

(MIRA 18:11)

1. Dnepropetrovskiy metallurgicheskiy institut.

VOLOVIK, I.

Combining training with productive work. Avt. transp. 37 no.9:46  
S '59. (MIRA 12:12)

1.Direktor 2-go Rostovskogo avtodorozhnogo tekhnikuma.  
(Automobile drivers)

LESHCHINSKIY, M., kand. tekhn. nauk; VOLOVNIK, I., inzh.

Damage of panels in consequence of nonobservance of production  
technology. Zhil. stroi. no.8:25 '65. (MIRA 18:8)

VOLOVIK, I.N., inzh.

Design of water drains for residential and industrial  
buildings. Vod. i san. tekhn. no.2:36 F '65. (MIRA 18:4)

L 16316-65 / EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(h) KJP(c)/ASD(a)-5 JD  
ACCESSION NR: AP4046098 S/0126/64/018/003/0461/0464

AUTHOR: Palatnik, L. S.; D'yachenko, S. S.; Il'inskiy, A. I.;  
Volovik, L. D.

TITLE: An electron microscope study of vacuum deposited copper con-  
densates <sup>16</sup> <sup>27</sup> <sup>B</sup>

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 3, 1964,  
461-464

TOPIC TAGS: vacuum copper condensate, vacuum deposited copper film,  
vacuum deposited film, copper film, film microhardness, copper film  
structure

ABSTRACT: Copper films <sup>18</sup> 20-50  $\mu$  thick deposited in a  $10^{-5}$  Torr  
vacuum at a condensation rate of  $1 \mu/\text{min}$  on a copper substrate  
having a temperature of 120 to 340C were studied by means of an elec-  
tron microscope in an attempt to determine factors contributing to  
their strength. The study revealed that the structure of the film  
depends on the temperature of the substrate. Films deposited at  
lower temperatures of substrate had a more dispersed structure and <sup>18</sup>

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a higher microhardness than those deposited on hotter substrates (see Enclosure). The films deposited on the 120C substrate had a more dispersed structure than foil cold rolled with 80% reduction. Vacuum condensates deposited at 160C had the same size of crystallites as cold-rolled foils but considerably higher hardness (240 kg/mm<sup>2</sup> versus 125 kg/cm<sup>2</sup>). In Leavine films, a finely dispersed structure is observed on the very surface only; the grain size increases toward the substrate. Deeper lying layers have a heterogeneous structure consisting of fine grains mixed with coarse. The surface layer consisting of uniformly dispersed fine grains amounts to 10—20% of the total film thickness of 50  $\mu$  obtained at a condensation rate of 0.5—1  $\mu$ /min. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Khar'kovskiy politekhnicheskij institut im. V. I. Lenina  
(Khar'kov Polytechnical Institute)

SUBMITTED: 30Jul63

NO REF SOV: 004

ENCL: 01

SUB CODE: MM, SS

OTHER: 001

Card 2/3



L 16316-65  
ACCESSION NR: AP4046098

ENCLOSURE: 02

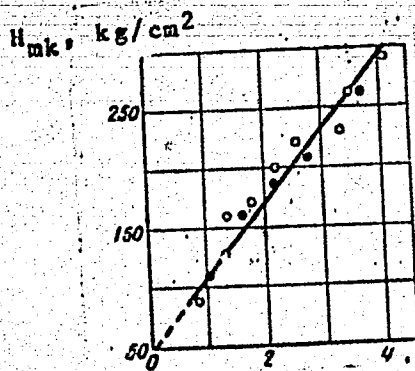


Fig. 1. Dependence of grain size and microhardness on substrate temperature.

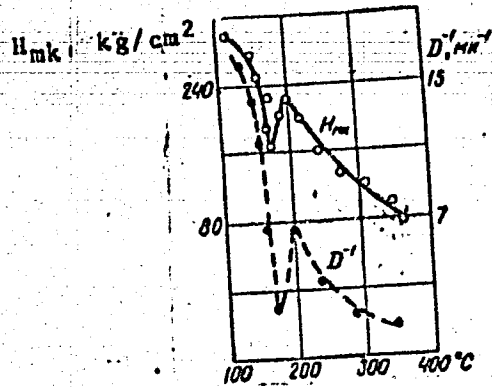


Fig. 2. Dependence of microhardness on grain size.

Card 3/3

USSR/Farm Animals - Horses.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30921

Author : Volovik M.

Inst : -

Title : On the Type of Draft Horse Suitable for the Irkutsk Oblast' (O tipe rabochey loshadi dlya Irkutskoy oblasti).

Orig Pub : Konevodstvo, 1957, No 5, 21-24

Abstract : The Study of the state of horsebreeding in the 27 kolkhozes of the Irkutsk Oblast' with a stock of 5,000 horses showed that for the forest-steppe zone where grain and animal growing is prevalent, a horse is necessary which has a traction force of 75 kg., body weight of 520-560 kg., and measurements within the limits of (in cm.): height at the withers 155-156, transverse length 160-162, breast circumference 184-185, and circumference of the metacarpus 21-20 $\frac{1}{2}$ . Three-breed crosses

Card 1/2

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VOLOVİK, M.I.

VOLOVİK, M.I., inzh.

Organizing work at landings where lumbering and sawmilling are  
combined. Mekh.trud.rab. 11 no.6:26-30 Je '57. (MIRA 10:11)  
(Lumbering)

VOLOVİK, M.I.

Economic efficiency of the production of distillation alcohol  
from nonedible raw materials. Gidroliz. i lesokhim.prom. 18  
no.1:26-27 '65. (MIRA 18:3)

1. Sibgiproglidroliz.

NIKITIN, V.N.: BASINA, YU. A.: BATOZSKAYA, T.A.: BRAYLOVSKAYA, S.A.: 1952, 1953  
RUDAYEVA, A.V.

Protoplasm

Change in the electro-colloidal properties (IET) of the protoplasm of rabbit tissues caused by age, related to the manner in which the rabbits were raised.  
Zhur. ob. biol. 13 no.4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952, UNCLASSIFIED

VOLOVIK, M. P.

Jul/Aug 52

USSR/Biology - Nucleic Acids

"Changes, Occurring During the Aging Process, in the Electro-Colloidal Characteristics of the Iso-Electric Point of the Protoplasm of Tissues of Rabbits, Under Various Methods of Rearing," V. N. Nikitin, Yu. A. Basina, T. A. Batozskaya, S. A. Braylovskaya, M. P. Volovik, A. V. Rudayeva, Khar'kov State U

Zhur Obshch Biol, Vol 12, No 4, pp 270-285

The biological role of nucleic acids and nucleo-proteids is very great. The protoplasmic complex of a number of organs of exptl rabbits, raised on a modified diet, revealed a change in iso-electric point to acidity. It may be considered as proven that changes in iso-electric point of protoplasmic complex take place during aging process of animal organism. Reproduction of intercellular matter in various tissues goes through the same biochemical aging evolution and reflects, in the main, the same regularity of ontogenesis as does the whole organism.

265T3

VOLOVIK, M.P.

USSR/General Division - History. Classics. Personalities.

A-2

Abs Jour : Ref Zhur - Biologiya, No 1, 1957, 29.

Author : I.B. Volchanetskiy, S.I. Medvedev, and M.P. Volovik.

Inst :

Title : Sketch of the History of Zoology at the University of Kharkov.

Orig Pub : Uch. zap. Kharkovsk. un-ta, 1955, 59, 81-122.

Abst : The History of the development of the science of zoology at the university of Kharkov for the past 150 years is described. The activities of I.A. Krinitskiy, A.V. Chernaya, A.F. Brandt, N.N. Somov, A.M. Nikolskiy, P.P. Sus-hkin, V.V. Stanchinskiy, I.B. Volchanetiskiy, G.F. Arnol'd E.E. Umanskiy, and others is characterized in detail. As part of the activities of the Kharkov zoologists before the Great October Revolution were the investigations of the fauna of the Kharkov Area and other parts of the Ukraine and Russia, the description and systematization of the

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USSR/General Division - History. Classics. Personalities.

A-2

Abs Jour : Ref Zhur - Biologiya, No 1, 1957, 29.

species of the various representatives of the vertebrate and non-vertebrate animals and so forth. In the Post-October period, a reorganization of the instruction and scientific-research work in all divisions of biology at the university of Kharkov is being carried out. Simultaneously with the study of the fauna of the southern areas of Ukraine, considerable attention has been given to the solution of the theoretical problems of zoology and biology, in particular those of ecology and biotsenology. The work of the faculties of zoology of vertebrate and nonvertebrate animals, entomology, and ecology connected with the names of A.M. Nikol'siy, P.P. Sushkin, G.F. Arnol'd, V.A. Yaroshevskiy, N.I. Kalabukhov, and others is described in detail. A list of works (331 titles) of zoologists of the university of Kharkov is provided.

Card 2/2



VOLOVİK, N.P.; KEBADZE, T.T.

Age changes in the electrocolloidal properties of cell protoplasm  
of fundal gastric mucosa in rabbits kept on different feed rations.  
Uch. zap. KHGU 79:43-53 '57. (MIRA 11:11)

1. Kafedra darvinizma i genetiki Khar'kovskogo gosudarstvennogo  
universiteta.  
(Age) (Isoelectric point) (Stomch)

VOLOVIK, M.P.; LYAMICHEVA, V.Ya.

Studying the electrocolloidal properties (isoelectric point) of  
udder cells in cows with regard to age, productivity, and breed.  
Uch. zap. KHGU 79:55-62 '57. (MIRA 11:11)

1. Kafedra darvinizma i genetiki Khar'kovskogo gosudarstvennogo  
universiteta.

(Cows)

(Udder)

Volovik, M.P.

USSR/General Biology. Genetics

B-5

Abs Jour : Ref Zhur - Biol., No 22, 1953, No 98930

Author : Volovik M.P., Kobadze T.T.  
Inst : Scientific Research Institute of Biology and  
Biological Faculty, Kharkov University  
Title : Some Cytochemical Changes Originating at Hybrids  
Between Races of Rabbits.

Orig Pub : Uch. zap. Khat'kovsk. un-ta, 1957, 90, Pr. 1-1.  
in-ta biol. i biol. fak., 30, 61-71

Abstract : Studies were conducted on the crossbreed vigor in  
hybrids from the crossbreeding of rabbits' species  
such as white giant, flemish and chinchilla.  
Weight, body and head length were considered; the  
isoelectric point of cytoplasm and karyoplasm in  
parietal acid cells and in major cells of glands  
in funders ventriculi mucosae had been determined  
both in the primary forms and in hybrids. For  
this purpose, Pushinger-Ruskin method was used.

Card : 1/3

USSR/General Biology. Genetics

Abs Jour : Ref Zhur - Biol., No 22, 1953, No 98930

In these very cells the content of KMA was de-  
termined. According to the morphologic and physio-  
logic indications, the crossbreed vigor in hybrids  
F<sub>1</sub> was represented most; it diminishes in F<sub>2</sub> but  
does not disappear completely even in F<sub>3</sub>. The ma-  
terial was not biometrically analyzed. Therefore,  
it is rather difficult to establish an authenticity  
degree of the obtained diversities. Isoelectric  
point of the cytoplasm changes depending upon the  
age. When a rabbit is four days old and is a  
crossbreed of white giant and flemish- the iso-  
electric point of the cytoplasm in parietal acid  
cells lies at pH 2.49 and if this is a primary  
form of a white giant and flemish - at pH 2.66.  
If a rabbit is four months old it is accordingly  
3.05 and 3.27, one year old 3.25-3.54 and 3.53.  
The isoelectric point of the cytoplasm in hybrids

Card : 2/3

VOLOVİK, M.P.; VESKROVNIY, A.M.[Bezskrovnyy O.M.]; SUKACHEVA, O.A.  
[Sukachova, O.A.]

Cytochemical studies of changes in the isoelectric point and  
the dynamics of desoxyribonucleic acid in the development  
of a malignant tumor. Dop.AN URSR no.3:363-366 '60.  
(MIRA 13:7)

1. Khar'kovskiy gosudarstvennyy universitet. Predstavleno  
akademikom AN USSR I.M.Bulankinym [I.M.Bulankinym].  
(PROTEINS—ELECTRIC PROPERTIES)  
(NUCLEIC ACID) (CANCER)

VOLOVIK, M. B.

Volovik, M. B. -- "Horses of the Baykal Region and Methods of Improving Them." Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1956. (Disseration For the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

AGAFONOV, G.Ye., inzh.; WOLOVIK, O.B., inzh.

Calculation of overvoltages in testing commutational capabilities of high-voltage apparatus with step-up transformers. Elektrotehnika 34 no.10:37-41 0 '63.  
(MIRA 16:11)

LITVINENKO, L.G.; VOLOVIK, O.I.

Effect of some forms of nitrogen on the productivity of *Scenedesmus quadricauda* (Turp.) Bréb. Ukr. bot. zhur. 19 no.3:28-33 '62.  
(MIRA 15:7)

1. Institut botaniki AN USSR, otdel kiokhimii rasteniy.  
(Algae—Cultures and culture media)  
(Plants, Effect of nitrogen on)

VOLOVIK, O.I. [Volovyk, O.H.]; EYNOR, L.O.

Effect of simazine and atrazine on the enzymatic transformation  
of cytochrome C in plants. Ukr. bot. zhur. 21 no.6:10-17 '64.  
(MIRA 18:2)

1. Otdel fiziologii Instituta botaniki AN UkrSSR.



VOLOVİK, P.G., Cand Agr Sci--(diss) "Selection of varieties and the  
*agricultural engineering*  
~~agrotechnique~~ of paniculate sorghum for the southern part of forest-  
steppes of ~~the~~ Khar'kovskaya Oblast." Khar'kov, 1958. 12 pp (Min of  
Agr USSR. Khar'kov Order of Labor Red Banner Agr Inst in V.V. Dokuchaev),  
150 copies (IL, 47-58, 134)

- 55 -

CA

Rapid colorimetric determination of active chlorine in solutions containing chlorine. R. Yulovik (Central Lab. Moscow Order Lenin Meat-Combinat). *Izvestiya Ind. 20, No. 3, 91-2(1949).*—Active Cl solns. used for disinfection purposes are evaluated colorimetrically by adding 1 cc. of the sample to a test tube contg. 20 cc. of 10% KI soln. and 2 cc. HCl and comparing the color developed with standards made with solns. contg. 0.5, 1.0, 1.5, and 2.0% active Cl. M. M. Pokur

VOLOVICH, R.A.

Infectibility of *Aedes aegypti* from chicks infected with *Plasmodium gallinaceum* in the incubation stage. Med. paras. 1 paras. bol. no.4: (MIRA 8:2)  
360 O-D '54.

1. Iz protosoologicheskogo otdela Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii (dir. instituta I.A.Demchenko, sav. otdelom prof. V.D.Moldavskaya)

(MOSQUITOES,

*Aedes aegypti*, infect. with *Plasmodium gallinaceum* from chicks)

(PLASMODIUM,

*gallinaceum*, infect. of *Aedes aegypti* from chicks)

VOLOVIK, R.A.

VOLOVIK, R.A.

Susceptibility to infection of *Aedes aegypti* mosquitoes allowed to feed on chicks already infected with *P. gallinaceum* during the incubation period and the period of acute malarial infection. Med. parazit. i parazitobol. supplement to no.1:6 '57. (MIRA 11:1)

1. Iz Ukrain'skogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii imeni prof. V.Ya.Rubashkina.  
(MOSQUITOES AS CARRIERS OF DISEASE) (MALARIA)

VOLKOVA, T.P., inzh.; VOLOVIK, S.I.

Problems of manufacturing high-ash content printing paper. Bun.  
prom. 34 no.6:15-21 Je '59. (MIRA 12:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i  
bumazhnoy promyshlennosti (for Volkova). 2. Glavnyy inzhener  
Dnepropetrovskoy bumazhnoy fabriki (for Volovik).  
(Paper)

VOLOVIK, S.P.

Materials on the biology of young *Oncorhynchus masu* (Brevoort)  
in some rivers of Sakhalin. Vop. ikht. 3 no.3:506-512 '63.  
(MIRA 16:10)

1. Sakhalinskoye otdeleniye Tikhookeanskogo nauchno-issledovatel'-  
skogo instituta rybnogo khozyaystva i okeanografii - SakhtINRO  
(Sakhalin—Salmon)

VOLOVIK, T.M. [Volovyk, T.M.]; KITSER, L.Ye. [Kitsera, L.O.]

Some changes in memory block No.5 of the magnetic drum in  
the electronic computer "Ural-1". Visnyk L'viv. un. Ser.  
mekh.-mat. no.1:54-56 '65.

(MIRA 18:12)

VOLOVNIK, S.S.  
BUYANOV, Viktor Ivanovich; VOLOVIK, S.S.; GONCHAROV, G.I.; LYASHENKO,  
S.N.; SIDLYARENKO, V.V.; PESTYAKOV, A.I., redaktor; FEDO-  
TOVA, A.F., tekhnicheskii redaktor.

[Mechanisation of hemp growing] Mekhanizatsiia konoplevodstva.  
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1956. 290 p. (MLRA 10:6)  
(Hemp) (Agricultural machinery)



VOLOVIA, S.S.  
SHCHENPKOVSKAYA, Ye.V., kandidat meditsinskikh nauk. (Khar'kov); GEMHTMAN,  
M.Ya. (Khar'kov); VOLOVIA, S.S. (Khar'kov); LINKOVA, P.V. (Khar'kov);  
SOKOL'SKIY, S.L., kandidat meditsinskikh nauk. (Khar'kov); DUTCHINA,  
B.S. (Khar'kov); MARKUS, L.M. (Khar'kov)

New effective method for the compound treatment of tabetic atrophy  
of the optic nerves. Vrach. delo no.1:89 Ja '57 (MLRA 10:4)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy  
institut.

(OPTIC NERVE--DISEASES) (NERVOUS SYSTEM--SYPHILIS)

*VOLOVİK, V.M.*

USSR/Human and Animal Physiology - The Skin.

V-12

Abs Jour : Ref Zhur - Biol., No 2, 1958, 9134

Author : V.M. Volovik

Inst :

Title : Sweating Reactions at Symmetrical Points on the Body in Childhood Epilepsy.

Orig Pub : Zhurnal nevropatol. i psikhatrii, 1956, 56, No 10, 811-817.

Abstract : In 26 school children of different ages the electrical resistance of the skin was measured (intensity and reverse asymmetry with sweating predominant on the right). Values were recorded for the phalanges of the index fingers of both hands. A slight variability in sweating was established over a period of time, as well as negligible asymmetry with sweating predominant on the right side. An increase in asymmetry with age was noted. Among healthy children sweating fell off considerably before sleep. Waking was

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L 20620-66 EWT(m)/FCC/T IJP(e)

ACC NR: AP6009720

SOURCE CODE: UR/0386/66/003/004/0186/0190

AUTHOR: Borzhkovskiy, I. A.; Volovik, V. D.; Kobizskoy, V. I.; Shmatko, Ye. S.

ORG: Khar'kov State University im. A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Measurements of polarization of coherent radio emission of extensive air showers

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 4, 1966, 186-190

TOPIC TAGS: extensive air shower, radio emission, Cerenkov radiation

ABSTRACT: Measurements of coherent radio emission of extensive air showers have shown that it is possible to record such radiation. The possibility had been predicted in works in which coherent radio emission due to an electron excess was studied. An electron excess appears during the development of an electron-photon avalanche in an extensive air shower, and its emission is ordinary Cerenkov radiation characterized by radial polarization. The charges of an extensive air shower can be separated by means of the Earth's constant magnetic field.

Cord 1/2

L 20620-66

ACC NR: AP6009720

However, in this case, radiation due to a magnetic retardation, dipole radiation, and radiation of the current will appear. This radiation is polarized primarily in the plane of the moving electron cluster, i.e., in the east-west direction. Experiments on the separation of radio emission polarized in the east-west direction from Cerenkov radiation showed only that coherent radiation is linearly polarized in the east-west direction. However, detection of linear polarization of radio emission of an extensive air shower in the east-west direction does not make it possible to determine the nature of the radiation. Orig. art. has: 2 figures. [JA]

SUB CODE: 03, 09, 20  
SUBM DATE: 11Jan66/ ORIG REF: 003/ OTH REF: 003  
ATD PRESS: 4224

Card

2/2 BK

VOLOVIX, V.M.

Sweating in symmertic areas of the body in epilepsy in children.  
Zhur.nevr. i psikh. 56 no.10:811-817 0 '56. (MIRA 9:12)

1. Kafedra psikhiiatrii (zav. - prof. S.S.Mnukhin) Leningradskogo  
pediatricheskogo meditsinskogo instituta.

(SWEATING, in various diseases,  
epilepsy in child., in symmetric areas of body (Rus))  
(EPILEPSY, in infant and child,  
sweating in symmetric areas of body in (Rus))

AMURSKIY, G.I.; SOKOLOV, V.Ya.; SEMENTSOV, A.F.; VOLOVIK, V.T.

Recent data on the tectonics and the oil and gas potential of  
the fractured zones of southeastern Turkmenistan. Neftegaz.  
geol. i geofiz. no.8:3-6 '64. (MIRA 17:9)

1. TsKTF Upravleniya geologii i okhrany neдр pri Sovete Ministrov  
Turkmenskoy SSR i Trest "Turkmenneft'erazvedka".

MEN', M.Ya.; PODGAYETSKAYA, M.G.; CHERKASSKAYA, Ye.I.; VOLOVİK, Ya.K.

Para-aminosalicylic acid therapy of tuberculosis of the skin. Vest.  
ven.1 derm. no.5:53 8-0 '53. (MLRA 6:12)

1. Iz Ukrainskogo instituta tuberkuleza,  
(Skin--Tuberculosis) (Para-aminosalicylic acid--Therapeutic  
use)

LEVKOVICH, B.A.; LOBINSKIY, G.I.; SEL'TIN, A.I.; VOLOVIN, Ye. L.

Separation of immature seeds and impurities from fibers and  
lint during the doffing from the teeth of saw gins. Izv. vys.  
ucheb. zav.; tekhn. tekhn. prom. no.3:37-42 '64.

(MIRA 17:10)

1. Tashkentskiy tekstil'nyy institut i izbekskiy zavod sel'sko-  
khozyaystvennykh mashin.



LAMIN, P.Z.; KUL'KOV, B.A.; VOLOVIK, Ye.P.

Self-start system of low-voltage electric motors. Energ. i elektrotekh.  
prom. no.1:60 Ja-Mr '65.  
(MIRA 18:5)

BLOKH, S.A., kand. tekhn. nauk; VOLOVIK, Yu.I., inzh.; SOLDATOV, G.A., inzh.;  
LEVITSKIY, V.K., inzh.

High temperature gas spray drying of ceramic suspensions. Stek.  
i ker. 22 no.8:21-23 Ag '65. (MIRA 18:9)

1. Institut gaza AN UkrSSR (for Blokh, Volovik). 2. Khar'kovskiy  
plitochnyy zavod (for Soldatov, Levitskiy).

VOLOVIX, Z.

Mechanisation of disinfecting operations. Mias.ind.SSSR 26 no.2:54  
'55. (MLRA 8:7)

1. Moskovskiy myasokombinat. (Slaughtering and slaughterhouses--  
Disinfection) (Spraying and dusting equipment)

VCLOVIKOV, G.Ya., inzh.

Estimating the amount of oversized ore during blasting in open-pit mines. Izv. vys. ucheb. zav.; gor. zhur. no. 4:81-84 '61.  
(MIRA 14:6)

1. Novocherkasskiy politekhnicheskiy institut imeni S.Ordzhonikidze. Rekomendovana kafedroy razrabotki rudnykh i nerudnykh mestorozhdeniy Novocherkasskogo politekhnicheskogo instituta.  
(Strip mining ) (Blasting)

ZELENOVA, O.I.; VOLOVIKOVA, I.M.

Tuffaceous rocks in the marine deposits of the Alai stage of the Tajik depression. Dokl.AN SSSR 108 no.3:526-529 My '56.

(MLRA 9:8)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralologii i geokhimii Akademii nauk SSSR. Predstavleno akademikom N.M. Strakhovym.

(Tajikistan--Volcanic ash, tuff, etc.)

GINZBURG, I.V.; YEFREMOVA, S.V.; VOLOVIKOVA, I.M.; YELISEYEVA, O.P.

Quantitative mineral composition of granitoids and its significance  
for problems of petrology and nomenclature as revealed by studies  
in Central Asia, Kazakhstan, and the Kola Peninsula. Sov.geol.  
5 no.3:67-82 Mr '62. (MIRA 15:4)

1. Moskovskoye obshchestvo ispytateley prirody.  
(Rocks, Igneous)

ACC NR: AP6033680

SOURCE CODE: UR/0048/66/030/010/1705/1707

AUTHOR: Borzhkovskiy, I. A.; Volovik, V. D.; Shmatko, Ye. S.

ORG: Khar'kov State University im. A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Measuring the coherent radio emission of extensive air showers of cosmic rays

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966, 1705-1707

TOPIC TAGS: cosmic ray, cosmic ray shower, ~~extensive air shower~~ radio emission, *dipole antenna, meteorologic radar*

ABSTRACT: Experimental results on the coherent radioemission of extensive air showers of cosmic rays are reported. Measurements were made using a system which included 24 east-west oriented dipoles. The effective area of the antenna was  $950 \text{ m}^2$ ; the minimum received threshold of radioemission was  $10^{-23} \text{ w} \cdot \text{m}^{-2} \cdot \text{cps}^{-1}$ . After amplification, detection, and discrimination the antenna signal passing through a delay line was applied to Geiger-Mueller counters with the counting rate of  $4.5 \text{ showers/hour}^{-1}$ . Flashes of Cherenkov light were registered by two FEU-44 photomultipliers, which were installed 46 m from the center of the antenna. The viewing angle of the light receivers was  $90^\circ$  and the minimum threshold sensitivity was  $400 \text{ photon} \cdot \text{cm}^{-2}$ . Measurements were made at  $\lambda = 23.6 \text{ m}$  during clear moonless nights only. During 42 hours of operation, 36 radio pulses from extensive air showers were registered. The system was operated with Geiger-Mueller counters for 40 hours. Only 3 pulses were recorded

Card 1/2

ACC NR: AP6033680

during that period. The authors conclude that signals with energy  $> 6 \times 10^{18}$  ev were effectively registered. Orig. art. has: 2 figures.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 006/

Card 2/2



VOLOVIK, V.M.; RABINOVICH, M.M.

Use of aminazine for treating psychiatric patients at the Mogilev  
Psychoneurological Hospital. Vop.psikh. no.4:220-230 '60.  
(MIRA 15:2)

1. Vneshtatnyye nauchnyye sotrudniki Instituta psikhiatrii AMN SSSR.  
(CHLORPROMAZINE THERAPEUTIC USE)  
(MENTALLY ILL CARE AND TREATMENT)

5(1) 25(5)

AUTHORS:

Moroshkin, V. Ye., Volodiz, V. P.

SOV/64-53-8-3/19

TITLE:

Experience in Overall Automation of an Acetic Acid Regeneration Plant (Opyt kompleksnoy avtomatizatsii tsakha regeneratsii uksusnoy kisloty)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 8, pp 481 - 486 (USSR)

ABSTRACT:

Over the three years of operation of the automated department for the regeneration of acetic acid at the Vladimirovskiy khimicheskiy zavod (Vladimir Chemical Plant) experience has been gathered which can be evaluated and applied in the automation of other chemical plants. The regeneration process takes place in three stages: 1) Extraction of the aqueous solution by means of ethyl acetate in packed extraction columns (20 m high, 750 mm diameter), 2) Rectification of the ester acid layer (rectification column, 2 m in diameter, volume of cupola 16 cu. m, surface of tubular heater 50 sq. m, surface of condenser 150 sq. m), 3) Regeneration of the ester-water layer for the production of ethyl acetate, separation of water in a packed column (height 14.5 m, dia-

Card 1/3

Experience in Overall Automation of an Acetic Acid  
Regeneration Plant

SOV/64-55-8-8/19

meter 500 mm). A regulating system was used to automate the extraction process (Fig 1). It consists of a diaphragm, separator vessels ( of Kh18N12M3T steel), a flow counter with a differential gauge and pneumatic cells, type DPP, a secondary apparatus 04-MS-610, a control panel VPDU and a pneumatic control valve. In the rectification process (Fig 2) a level meter 04-DPP-410 is used to automatically control the acid level in the cupola, while the quantity of the ester acid mixture and ethyl acetate is recorded on the automatic apparatus MS-610. The water level in the column is controlled by a RUKTs regulator. Level meters RUTs are used to control the level in the preparation of the acetic acid solution. The control room (about 40 sq.m) is separated from the other rooms according to regulations. The automated system was put up by the KIP plant with the assistance of the staff of the regeneration department. Automation resulted in some difficulties which have been eliminated, e.g. by using Kh18N12M3T and 1Kh18N9T steel and cast iron instead of bronze etc. When automation was completed after 12 - 13 months, energy consumption could

Card 2/3

Experience in Overall Automation of an Acetic Acid  
Regeneration Plant

SOV/64-58-8-8/19

be reduced by 5 - 10%. Ethyl acetate consumption per ton of acetic acid dropped by 17.2%, steam consumption by 13.6%, electric power by 15.5%, water by 18.6%. It was possible to reduce the staff of the department by 30%, while productivity increased by 40%. Thus the cost price of acetic acid dropped by 17.5%, annual savings amount to 2,6 million roubles. On the basis of the experience acquired a plan for the improvement and expansion of automation has been drawn up. There are 5 figures.

Card 3/3

VOLOVIK, V.D.; STRELKOV, G.P.; CHERKASOV, A.S.; CHURSIN, G.N.

Determining the moisture in sand from the attenuatic f - fast  
neutron flux. Atom.energ. 16 no. 4:366-367 Ap '64. (MIRA 17:5)

**"APPROVED FOR RELEASE: 08/09/2001**

**CIA-RDP86-00513R001860720009-8**



**APPROVED FOR RELEASE: 08/09/2001**

**CIA-RDP86-00513R001860720009-8"**

VOLOVIK, Ya., K. (Kiyev)

Vascular changes (Oscillographic) in tuberculosis of the skin during treatment with eivtamin D<sub>2</sub>, phthivazid, streptomycin, and other methods. Vrach. delo no.9:941-943 S'58 (MIRA 11:10)

1. Klinika tuberkuleza kozhi Ukrainского nauchno-issledovatel'skogo instituta tuberkuleza.

(SKIN--TUBERCULOSIS)

(CARDIOVASCULAR SYSTEM)

*Cancel*  
VOLOVIK, Ya. K.: ~~Master Med Sci (diss)~~ -- "The problem of the functional state of the vegetative portion of the nervous system in treating tuberculosis of the skin with vitamin D-2 and with antibacterial preparations". Kiev, 1958. 15 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 200 copies (KL, No 6, 1959, 143)



VOLOVİK, Ya. K.

UKRAINE/Microbiology - Medical and Veterinary Microbiology

F-4

Abs Jour : Referat Zhurn - Biol., No 16, 25 Aug 1957, 68651

Author : Volovik, Ya.K.

Title : The Fluctuations of Skin Sensitivity to Tuberculin on Patients with Tubercular Lupus in the Process of Treatment with Vitamin D<sub>2</sub>.

Orig Pub : Material po obmenu Nauch. inform. Ukr. n.-i. in-ta tuberkuleza, 1955, No 2, 140-142

Abstract : There was investigated the skin sensitivity to tuberculin (Pirke reaction with dilutions of tuberculin from 0.5 to 10%) and the dermographic reaction on 121 patients with tubercular lupus and for different periods of treatment by vitamin D<sub>2</sub> (the average total dose for adults was 15 million International Units, for children 8 million I.U.). In the process of treatment, along with the healing of tubercular nidi, in a considerable number of patients the strengthening of both reactions are noted as occurring even in the initial period of treatment.

Card 1/1

- 79 -

VOLOVIKOV, G.Ya., inzh.

Effect of the quality of shattering during the explosion breaking  
of rock on the efficiency of the excavator. Izv. vys. ucheb. zav.;  
gor. zhur. 8 no.1:11-14 '65. (MIRA 18:3)

1. Novocherkasskiy politekhnicheskii institut imeni S. Ordzhonikidze  
Rekomendovana kafedroy razrabotki rudnykh i nerudnykh mestorozhdeniy.

AUTHOR: Volovikov, G.Ya.

127-50-1-25/28

TITLE: On the Article by M.V. Vasil'yev "Outlook of the Development of Automobile and Tractor Transport in Open Mines" (Na stat'yu M.V. Vasil'yeva "Perspektivy razvitiya avtomobil'nogo i traktornogo transporta na otkrytykh gornykh razrabotkakh")

PERIODICAL: Gornyy Zhurnal, 1958, Nr 1, p 76 (USSR)

ABSTRACT: This note represents an answer of Volovikov on the Vasil'yev article published in Gornyy Zhurnal, 1957, Nr 1. Volovikov disagrees with Vasil'yev on the question of comparing the costs of automobile and railroad transport and points out that conditions in the USSR are different from those in the USA. The Volovikov conclusion is that the costs of both of these kinds of transport are approximately the same up to 4 km. When the transport distance increases to 10 km, railroad transportation is less expensive than automobile transportation by 1.5 to 2 times, but not 3 to 5 times as was asserted by Vasil'yev.

Card 1/2

The note contains 1 graph.

127-58-1-25/28

On the Article by M.V. Vasil'yev "Outlook of the Development of Automobile and Tractor Transport in Open Mines"

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute)

AVAILABLE: Library of Congress

Card 2/2      1. Cargo vehicles-USSR    2. Transportation-USSR    3. Mining engineering-USSR    4. Ores-Transportation

VOLOVNIKOV, N.: PLUTERIK, D.

"Mining electrician" by N.M. Khaecha. Reviewed by N. Volovikov.  
(MIRA 10:8)  
Khat.ogl. 6 no.6:20 Jo '57.  
(Electricity in mining)

VOLOVIKOV, V. (Irkutsk).

Manufacture tanks for processing color paper. Sov. foto 17 no.9:  
78 S '57. (MIRA 10:9)  
(Color photography--Apparatus and supplies)

IAVEPOV, N.P.; VIACH, S.P.; VELAVIOTVA, I.M.; IVANOV, I.B.

Some problems of the geology of the Yandykhan Mountains (southern Kazakhstan) in the light of the determination of the absolute age of igneous rocks. Dokl. AN SSSR 160 no.4:961-964, 1964.

(MIRA 10:4)

1. Submitted June 15, 1964.

VOLOVIKOVA, I.M.

Spherulitic formations in upper Paleozoic effusive rocks in the  
Chatkal Range. Trudy Inst.geol.nauk no.159:3-12 '55. (MLBA 9:5)  
(Chatkal Range--Rocks, Igneous)



VOLOVIKOVA, I.M.

VOLOVIKOVA, I.M.

Petrochemical characteristics of effusive rocks of the central southern slope of the Kurama Range (basin of the upper Utken-su and Karamazar-say). Trudy IGEM no.5:67-74 '57. (MIRA 10:12)  
(Kurama Range--Rocks, Igneous)

VOLOVIKVA, I.M.

Accessory minerals in granitoids from the southern part of the Chatkal Range. Uzb.geol.zhur. no.2:11-27 '58. (MIRA 12:2)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.  
(Chatkal Range--Granite)

VOLOVIKOVA, I.M.

Special characteristics of the material composition and formation of  
granitoids in the southwestern part of the Chatkal Range. Trudy IGEM  
no.21:5-34 '56. (MIRA 12:1)  
(Chatkal Range---Rocks, Igneous--Analysis)

VOLOVIKOVA, I.M.

Contact interaction and assimilation processes in intrusive rocks  
on the northern slope of the Chatkal Range (Central Asia). Trudy  
IGEM no.27:27-38 '60. (MIRA 13:7)  
(Chatkal range--Rocks, Igneous) (Metasomatism)

GINZBURG, I.V.; YEFREMOVA, S.V.; YELISEYEVA, O.P.; VOLOVIKOVA, I.M.

Quantitative and mineralogical classification of granitoids. Bul.  
MOIP.Otd.geol. 35 no.4:142-143 J1-Ag '60. (MIRA 14:4)  
(Granite)

The composition of the Kiyas'ma river slimes and slime water. I. N. Sotvinov and E. P. Volokhovskaya...  
Zapiski Belzhenskoi Biol. Stantsii 1939, No. 11, 67-67;  
Khim. Refert. Zhur. 1940, No. 7, 19.—Twenty-nine  
specimens of slimes were investigated by their ash con-  
tent and the content of residue insol. in 10% HCl. The  
content of ash varied from 71.1 to 80.2 (based on the dry  
substance) and that of the insol. residue from 63.9 to  
100.0%. The content of the insol. residue paralleled that  
of ash. The content of organisms at the bottom varied  
between 0.28 and 10.7 g./sq. m. It was proportional  
neither to the content of ash nor to that of the insol.  
residue. Eight of these specimens were examined in greater  
detail. The results of analyses for the HCl-insol., for natural  
moisture and of the contents of C, N and H<sub>2</sub>O are given.  
The amt. of slime ash, obtained by pressing out these  
slimes was 70-80% of the total content of water.

W. M. Heun

VOLOVIKOVSKAYA, Ye.P.

Detailed correlation of the productive Devonian in the Tatar  
A.S.S.R. and Bashkiria based on the values of the  $V_{H_1}$  and  $V_{H_2}$   
relationships in clay rocks. Trudy VNII no.34:174-197 62.  
(MIRA 15:7)

(Tatar A.S.S.R.—Clay—Spectra) (Bashkiria—Clay—Spectra)

VOLOVIKOVSKAYA, Ye.P.

Correlation of upper Jivet and Pashiya sediments in the Shkapovo field based on the vibrations in the concentration of vanadium determined by the spectrum analysis, Trudy VNII no.20:54-74 '59.

(MIRA 12:10)

(Geology, Stratigraphic) (Vanadium--Spectra)



PETROVSKAYA, A.N.; VOLOVIKOVSKAYA, Ye.P.; VOLODCHENKOVA, A.I.;  
MOCHALOVA, Ye.M.; KIRIYENKOVA, N.V.

Detailed correlation of cross sections of the mineralogical  
complex of the clay part of rocks. Nauch.-tekh, sbor po dob.  
nefti no.13:31-33 '61. (MIRA 16:7)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.  
(Tatar A.S.S.R.—Clay—Analysis)

VOLOVINSKA, V. P.

"A Study of the Basic Factors Which Influence the Moisture  
Absorptivity of Sausage Meat and the Quality of Cooked Sausage."  
Cand Tech Sci, Moscow Technological Inst of the Meat and Dairy  
Industry, 30 Sep 54. (VI, 16 Sep 54)

SO: Sum 432, 29 Mar 55

LAVROVA, L., kandidat tekhnicheskikh nauk; VOLOVINSKAYA, V., kandidat tekhnicheskikh nauk; DYKLOP, V., kandidat biologicheskikh nauk; KALENOVA, M., inzhener.

Duration of salting period in the production of boiled sausages. Mias. ind. SSSR 27 no.4:24-29 '56. (MLRA 9:10)

(Sausages)

VOLOVINSKAYA, V., kand. tekhn. nauk; RUBASHKINA, S.; POLETAYEV, T.;  
KEL'MAN, B.; MERKULOVA, V.

Improving the quality of hams during salting with the use of  
phosphates and sodium ascorbates and glutamates. Mias. ind. SSSR.  
30 no.4:48-50 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlen-  
nosti.

(Meat, Salt)

VOLOVINSKAYA, V.

LAVROVA, L., kand.tekhn.nauk; VOLOVINSKAYA, V., kand.tekhn.nauk;  
DYKLOP, V., kand.biol.nauk; KRYLOVA, V.; MERKULOVA, V.

Comminuting meat. Mias. ind. SSSR 29 no.1:11-14 '58.  
(MIRA 11:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promysh-  
lennosti.

(Sausages)

LAVROVA, L.P., kand.tekhn.nauk; VOLOVINSKAYA, V.P.; KRAVCHENKO, N.D.,  
starshiy nauchnyy sotrudnik; LEVINA, L.I., starshiy nauchnyy  
sotrudnik; CHIRYATNIK, V.I., starshiy nauchnyy sotrudnik;  
KONAREVSKIY, A.A., starshiy nauchnyy sotrudnik; KHYLOVA, V.V.;  
mladshiy nauchnyy sotrudnik; TELEPNEVA, V.P., mladshiy nauchnyy  
sotrudnik; MATYTSIN, N.N., inzh.; MALYUTIN, P.I., inzh.

Developing a continuous mechanized preparation of sausage meat  
used in the production of cooked sausages. Trudy VNIIMP no.9:  
13-39 '59. (MIRA 13:8)

1. Moskovskiy myasokombinat (for Matytsin and Malyutin).  
(Sausages)

VOLOVINSKAYA, V.P., kand.tekhn.nauk; SOLOV'YEV, V.I., kand.khim.nauk;  
RUBASHKINA, S.Sh., starshiy nauchnyy sotrudnik; KRYLOVA, V.V.,  
mladshiy nauchnyy sotrudnik.

Intensification of the method of aging meat in brine for producing  
semismoked sausages. Trudy VNIIMP no.9:40-49 '59. (MIRA 13:8)  
(Sausages)

VOLOVINSKAYA, V., kand.tekhn.nauk; KEL'MAN, B.

Determination of the moisture absorption capacity of meat. Mias.  
ind. SSSR 31 no.6:47-48 '60. (MIRA 13:12)  
(Meat) (Moisture)



VOLOVINSKAYA, V.P., kand. tekhn. nauk; RUBASHKINA, S.Sh., starshiy nauchnyy  
sotrudnik; DERGUNOVA, A.A., starshiy nauchnyy sotrudnik; SHCHEGOLEVA,  
O.P., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., teknik; PAVLOV,  
D.V., kand. tekhn. nauk; MATROZOV, S.I., kand. khim. nauk

Use of ascorbic acid, sodium ascorbate and glutamate in the  
production of sausages. Trudy VNIIMP no.11:76-86 '62.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promy-  
shlennosti (for Volovinskaya, Rubashkina, Dergunova, Shchegoleva,  
Merkulova). 2. Moskovskiy tekhnologicheskii institut myasnoy i  
molochnoy promyshlennosti (for Pavlov, Matrozoza).

VOLOVINSKAYA, V.P., kand. tekhn. nauk; KEL'MAN, B.Ya., mladshiy nauchnyy  
sotrudnik

Developing the method for determining moisture absorbability  
of meat. Trudy VNIIMP no.11:128-138 "62.

(MIRA 18:2)

VOLOVINSKAYA, V.P., kand. tekhn. nauk; CHEKHOVSKAYA, V.T., mladshiy  
nauchnyy sotrudnik

Role of individual smoke components during the smoking  
process. Report No. 1. Role of formaldehyde and its removal  
from solutions. Trudy VNIIMP no.16:202-210 '64.

(MIRA 18:11)

VOLOVINSKAYA, V.P., kand. tekhn. nauk; KEL'MAN, B.Ya., mladshiy nauchnyy  
soтрудnik

Use of the penetration method for determining the consistency  
of back fat. Trudy VNIIMF no.12:149-156 '62. (MIRA 18:2)

VOLOVINSKAYA, V.P., kand.tekhn.nauk; KEL'MAN, B.Ya., mladshiy nauchnyy  
sotrudnik

Effect of the technological factors and various surfaces on  
the adhesive properties of the sausage meat. Trudy VNIIMP  
no.14:10-20 '62. (MIRA 16:8)  
(Sausages)

GLUMOV, Nikolay Pavlovich; VOLOVINSKIY, V.V., red.

[Golden time; recollections on hunting in the Kama Valley]  
Zolotaia pora; vospominaniia ob okhote v Prikam'e. Perm',  
Permskoe knizhnoe izd-vo, 1964. 173 p. (MIRA 18:4)

USSR/Chemical Technology - Chemical Products and Their Application. Water Treatment. Sewage Water, I-11

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62494

Author: Volovinskaya, V. P., Shchegoleva, O. P.

Institution: None

Title: Investigation of the Sewage of the Moscow Meat Combine imeni A. I. Mikoyan

Original

Periodical: Tr. Vses. n.-i. in-ta myas. prom-sti, 1955, No 7, 158-161

Abstract: Daily sewage (S) discharge at the combine amounts to 8,000-12,000 m<sup>3</sup> (of which ~50% are household refuse) with a coefficient of nonuniformity of 0.6-1.5. Over the rumen sewers are discharged ~8% S. Composition of S, according to principal indexes (in mg/l): coarse-dispersed admixtures 1,042 (of which 91.2% organic), dense residue 3,084, oxidizability (O<sub>2</sub>) 143, BOD<sub>5</sub> 724, BOD<sub>20</sub> 1,010, fats 587. The available purification units (grease trap and manure trap) do not ensure sufficient degree of S purification. Ruman presses reduce the moisture content of rumen to 68-79%.

Card 1/1

VOLOVIKOVSKAYA, Ye.P.; VAZERSKAYA, N.A.

Dividing and correlating the terrigenous sediments of the Lower Carboniferous period of the Kama-Kinel' Depression from the ratios V/Ni and Cu/Ni determined by spectral analysis. Trudy VNII no.38:147-156 '63. (MIRA 17:9)



VOLODYMIRSKAYA, Ye.M.; VASETSKAYA, N.A.

Characteristics of the producing sediments of the Devonian of the Tatar A.S.S.R. and Bashkiria according to the magnitudes of the ratios  $\frac{K_2O}{Na_2O}$  and  $\frac{CaO}{MgO}$  in clay materials, determined by spectral analysis. Study VIII no. 43378-109 '65.

(MIRA 1886)

A.C.S.

Chemistry

Potentiometric determination of iron in the presence of aluminum and titanium. F. K. Pimenov and V. I. Volodavskiy. *Uchenye Zapiski Saratovskogo Universiteta*, 15 (4) 106-18 (1960); *Khim. Referat. Zhur.*, 4 (3) 53 (1941). The titration is done with a solution of  $\text{Cr}^{6+}$  after oxidizing the Fe. The  $\text{Cr}^{6+}$  solution is prepared according to Thornton (*Ind. Eng. Chem. Anal. Ed.*, 4 (2) 240-43 (1932)) as modified by Zan'ko and Shlyukman (*Zavodskaya Lab.*, 3 (9) 777-84 (1934)). The titration is done in an atmosphere of  $\text{CO}_2$  at 80°, with constant stirring. The strength of the  $\text{Cr}^{6+}$  solution is determined by titrating it potentiometrically with a 0.1 N solution of  $\text{FeCl}_2$  under conditions similar to those of the titration of the unknown. The  $\text{FeCl}_2$  is standardized gravimetrically, the Fe being precipitated with  $\text{NH}_4\text{OH}$ . To study the effect of other methods, the authors determined Fe in solutions containing Fe 0.0007 and Al up to 0.1, Ti up to 0.1, Ca up to 0.2, Mg up to 0.05, K up to 0.01, and Na up to 0.01 gm per 100 ml. The deviations from the gravimetric method were  $\pm 0.5$  gm. This method is applicable for determining Fe in clay, cement, phosphorite, siderite, spherosiderite, and bauxite. M. Ho.

35

**MAGYAR ENERGIAGAZDASAG—  
POWER ECONOMY IN HUNGARY**  
Vol. III. -1950.  
No. 7-12, July-Dec.

*Volodnik*

~~Experiments~~  
~~and Reports~~  
Experiments gained in the installation of  
Exhaustors in the *Fugaring* plant  
from the Russian. 126-131

ASAC-ELA METALLURGICAL LITERATURE CLASSIFICATION

FROM: 126-131

EXACT: 126-131

EXACT: 126-131

GOKYACHENKOVA, Ye.V.; VOLOVNIK, B.Ya.; ZAYDEL'MAN, F.R.

Effect of vitamin B6 deficiency on formation of mercapturic acid  
and on transulfuration in the rat organism. Doklady Akad. nauk SSSR  
93 no.1:111-114 1 Nov 1953. (GLML 25:4)

1. Presented by Academician N. N. Anichkov 7 September 1953.

VOLOVNIK, B. Ya

Effect of deficiency of vitamin B<sub>6</sub> on formation of mercapturic acid and on transsulfuration in the rat. E. V. Goryachenkova, B. Ya. Volovnik, and P. R. Zaidel'man (Inst. Biol. and Med. Chem., Acad. Med. Sci., Moscow). *Doklady Akad. Nauk S.S.S.R.* 93, 111-14 (1953).—Avitaminosis B<sub>6</sub> produced by a diet deficient in this vitamin and contg. about 40% casein was followed by tracing S of S-labeled DL-methionine. Without added methionine the animals excreted about 28.0% of administered PhBr as mercapturic acid in the normal state, and about 23.2% in the B<sub>6</sub>-avitaminotic state, indicating little if any disturbance of formation of mercapturic acid. With addnl. feeding of methionine the figures were 38.5% for controls and 34.6% for test animals, again showing little if any effect of vitamin deficiency. The detn. of radioactivity of total S and cystine S in the protein of all internal organs taken after 24 hrs. following radiomethionine injection showed that both control and the test animals assimilate S at the same rate. However, in shorter expts. (4-6 hrs.) there is a definite decline of active S content in the cystine S of the liver (45-60%) and total protein S (20-40%) of the avitaminotic animals, the results being most pronounced when 60 mg. addnl. methionine was given the animals.  
O. M. Kosolapoff

VOLOVNIK, B. Ya.

EXCERPTA MEDICA Sec.2 Vol.9/9 Physiology, etc. Sept 56

3961. VOLOVNIK B. Ya. Lab. for Chem. of Nitrogen Metabolism, Inst. of biol. and med. Chem., Acad. of med. Sci., Moscow. \*The influence of B<sub>6</sub>-avitaminosis upon the metabolism of L- and D-methionine-sulphur in the animal organism (Russian text) BIOKHIMIJA 1955, 20/4 (490-494) Tables 2

S<sup>35</sup>-labelled D- and L-methionine (I) were injected into pyridoxine (II)-deficient white mice and controls, and the S<sup>35</sup> content of whole body proteins, as well as that of cysteine alone, was determined after different periods. The incorporation of S<sup>35</sup> was found to be significantly reduced under II deficiency. This confirms the results of earlier experiments with enzyme preparations, showing that II is involved in the in-vivo synthesis of cysteine by transsulphonation. A very marked difference was observed between the effects of the 2 stereoisomers of I: while the S<sup>35</sup>-uptake from L- and DL-I was reduced only 20-37%, that from D-I was reduced 44%. This is ascribed to the fact that in II-avitaminosis the conversion of L- to D-amino acids via keto-acids is affected in such a way that there is very little formation of the isomer needed for utilization. In prolonged experiments a compensation of the first reduced S<sup>35</sup>-utilization occurs, showing a certain transsulphonating capacity of the organism, which is able to overcome the lack of II.

Fuks - Serajevo

GUKASYAN, A.G., prof.; SADOKOVA, Z.M.; VOLOVNIK, B.Ya. (Moskva)

Studies on gastric juice acidity without sounding. Terap.arkh. 31  
no.8:52-56 Ag '59. (MIRA 12:11)  
(GASTRIC JUICE)

PA 44/49T39

USSR/Engineering  
Power Plants  
Steam Boilers

May 49

"Some Assembly Features of the High-Pressure  
Boiler Built by the Taganrog Factory," Ya. B.  
Volovnik, N. A. Rogovin, Engineers, 7 pp.

"Elek Stants" No 5

Boiler built by Taganrog "Krasnyy Kotel'shchik"  
Boiler Factory (TP-230-1) was received by an  
electric-power plant in May and was assembled  
by Sep. Productivity of the boiler is 200 - 230  
tons/hr at a pressure of 100 at and superheating

FDB

44/49T39

USSR/Engineering (Contd)

May 49

temperature of 500° C. The TP-230-1 is the  
most powerful USSR boiler unit.

FDB

44/49T39

VOL. VNIR YA. P.



VOLOVNIK, Ya., inzh.; KHARITIONOV, K., inzh.

Assembling the main building of a thermal electric station of  
precast reinforced concrete. Stroitel' no.5:3-5 My '61.  
(MIRA 14:6)

(Precast concrete construction)  
(Dzerzhinsk—Electric power plants)

ACC NR: AP7003196

(H)

SOURCE CODE: UR/0213/66/006/006/1086/1088

AUTHOR: Volovov, V. I.; Zhitkovskiy, Yu. Yu.

ORG: Acoustics Institute (Akusticheskiy institut)

TITLE: Measurements of the coefficient of sound reflection from the ocean bottom

SOURCE: Okeanologiya, v. 6, no. 6, 1966, 1086-1088

TOPIC TAGS: ocean acoustics, ocean floor topography, oceanography, underwater acoustics, *acoustic equipment, oceanographic instrument*

ABSTRACT: Some experimental results of the study of the coefficient of sound reflection from the Atlantic Ocean bottom are given, based on measurements made in 1961-62 over a distance of 20,000 miles. The measurements were made at normal incidence using Kelvin-Hughes MS-26 echo sounders at 9.6 kcps and N-100 recorders. Bottom relief was simultaneously recorded on a Ladoga precision graphic recorder. The difference between the experimentally determined coefficients and those computed from the parameters of bottom sediments is shown. A graph is given showing the averaged reflection values along a track having an irregular bottom relief. The conclusion is drawn that bottom relief considerably influences the value of the reflection coefficients. Orig. art. has: 1 figure.

SUB CODE: 08/ SUBM DATE: 04Nov65/ OTH REF: 006

Card 1/1

UDC: 551.083:534(26)

ACC NR: AP7003195

(N)

UR/0213/66/006/006/1080/1085

AUTHOR: Volovova, L. A.; Zhitkovskiy, Yu. Yu.

ORG: Acoustic Institute (Akusticheskiy institut)

TITLE: Determination of some parameters of irregularities of the ocean floor by acoustic methods

SOURCE: Okeanologiya. v. 6, no. 6, 1966, 1080-1085

TOPIC TAGS: ocean floor topography, acoustic detection, acoustic scattering, underwater acoustics

ABSTRACT: The scattering of sound by the ocean floor was measured in 1961-62 in 100 regions of the Atlantic Ocean and shown to be related to large geomorphological nonuniformities which cannot be determined by echosounding. A 200-g powder charge, reception by a nonoriented hydrophone, and recording and frequency analysis by a magnetophone and band filters, respectively, were used to measure the scattering of 1-30-kc/sec waves at 5-60° angles of incidence. Scattering was correlated with large and small irregularities as defined by the theoretical equation

$$M_B(\theta, f) \sim \frac{p^2}{\cos^2 \theta} e^{-p^2 / k^2} + 4(k\sigma)^2 (kr_0)^2 \cos^2 \theta,$$

$$k = \frac{2\pi f}{c}; p = a/2h,$$

(1)

Card 1/2

UDC: 551.082/462.2(26)

ACC NR: AP7003195

$M_B$  being the coefficient of scattering,  $a$  and  $r_0$  the radius of autocorrelation of the deviation of large and small nonuniformities, respectively, from average flatness,  $h$  and  $\sigma_0$  the quadratic average height of large and small nonuniformities, respectively, and  $\theta$  the angle of incidence. Angular dependence of the scattering of sound was shown to be applicable for the determination of the mean slopes of large irregularities; such nonuniformities, having moderate slopes (to 10—15°) give scattering primarily at low angles of incidence, the mode of scattering depending in this region on the slope of nonuniformities, without dependence of scattering on frequency. Orig. art. has: 4 formulas and 4 figures.

SUB CODE: 0917, 20/ SUBM DATE: 31Jul65/. ORIG REF: 002

Card 2/2